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1				TGGAGATTGT ACCTCTAACA						
101	TGGACTGCCC		GGTACGACGT	TCCAGAGACC AGGTCTCTGG P E T	AGGGGACCGG	CCCCGTAGA	GGACCGACAC	GAGGACCGGG	AGGAACCGTG	GTGGACCCGT
201				GCTCCGATGG CGAGGCTACC						
27				A P M A						
	CGACCCAGGT	CGGGGGACGC	CGACTGTACG	GGAGGCTGGA CCTCCGACCT	GACCTCACTG	TCGGACCGGG	TTGACCGAGT	TCGGTCCCGT	CGGGAGACAC	CTTAGGGTTG
61	w v Q	PPA	A D M R	R L D	wsp	SLAQ	LAQ	ARA	ALCG	I P T
	GGGCTCGGAC	CGTAGGCCGG	ACACCGCGTG	CCTGCAAGTG GGACGTTCAC L Q V	CCGACCTTGT	ACGTCGACGA	ceeececee	AACCGCAGGA	AACAACTICA	CCAGTCGGAT
501		_		GCGGCAGGAG						
127				CGCCGTCCTC						
				CAGGCCAGAC						
				GTCCGGTCTG G Q T						
701				GTGTTCGCTC CACAAGCGAG						
194				C S L						
801				CAGAACCATG GTCTTGGTAC						
227	V P R N	P C R	M S C	Q N H G	R L N	I S T	с н с н	C P P	G Y T	G R Y C
	CGGTTCACTC	CACGTCGGAC	GTCACACACG	ACGGCCGGTT TGCCGGCCAA G R F	GCCCTCCTC	CTCACGAGCA	CGCAGACACT	GTAGCCGATG	CCCCTCGGG	TCACACGGTG
	GTTCCACGTA	AAAGGGAAGG	TGTGGACACT	CCTGAGGATC GGACTCCTAG L R I	CTGCCTCTGA	CGAAGTACCA	CAGAAGTCTC	CGTCTGTGGA	TAATGTCTCG	GTCCTACTTT
1101				ATCAAGAGCC						
327				TAGTTCTCGG						
	GACTGTCACT	GAAGCTCTGG	TCCTTGAAGA	GGATCGGGCT CCTAGCCCGA I G L	GTGGATGTTC	TGGCGGTTCC	TGAGGAAGGC	GACCCGGTGT	CCCCTCGTGG	TCCGGAAGTG
	-			CGGCTGGTG	•				_	
	GTCAAAACGG	AAACCCGTCG	GACTGTTGGT	GCCCGACCAC G L V	ACCGACTCAC	GACGGTACCC	CAAACCGTTG	ACGCACCTCG	ACGTCCGAAG	TCGACGGAAG
							•			GGCCTGACCA
	TTGACCTTGC	TGGTCGCGAC	GTTTTGGGCT		AGACGGTCAA	ACGGGTCCTC	GTGTAGAGGG	CCACCCCGGG	TCCCAGGACT	CCGGACTGGT
1501										TCATGTCCAA AGTACAGGTT
1601										GGGCCCTTC CCCCGGGAAG
1701										GCCCAGACCC CGGGTCTGGG
1801				AACCCCACGG TTGGGGTGCC						

><homology to cysteine-rich secretory proteins>

><signal peptide>

MLHPETSPGRGHLLAVLLALLGTTWA

><start mature protein>

EVWPPQLQEQAPMAGALNRKESFLLLSLHNRLRSWVQPPAADMRRLDWSDSLAQLA QARAALCGIPTPSLASGLWRTLQVGWNMQLLPAGLASFVEVVSLWFAEGQRYSHAA GECAR

><potential N-glycosylation site>

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><potential N-glycosylation site>

NISTCH

><EGF-like domain cysteine pattern signature>

CHCPPGYTGRYCQVRCSLQCVHGRFREEECS

><EGF-like domain cysteine pattern signature>

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><C-type lectin domain signature (CVELQASAAFNWNDQRCKTRNRYIC)> CVELQASAAFNWNDQRCKTRNRYICQFAQEHISRWGPGS

FIGURE 5A

2989336 W79362	1 1	GCTGGGAAGANGGGCCAGAAAGGCAGCTGGCAGCAGACTCCAGGGTCTGA ACAG
<consen01></consen01>	1	ACAG
2989336	51	GTGGGCCAACCTTGACTACNCCGGCCCAGGGCTCACCTACAAGACCGCCA
w79362	5	+.+.+.+++++++++++++++++++++++++++++
<consen01></consen01>	5	
2989336		AGGACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCCTTCACCAGTTTT
W79362	55	AGGACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCCTTCACCAGTTTT +++++++++++++++++++++++++++++++++
<consen01></consen01>	55	${\tt AGGACTCCTTCCGCTGGGCCACAGGGGAGCACCAGGCCTTCACCAGTTTT}$
2989336	151	GCCTTTGGGCAGCCTGACAACCACGGGTTTGGCAACTGCGTGGAGCTGCA
W79362	105	
2554374	1	TGCGTGGAGCTGCA
	_	+++++++.+++++++++++++++++++++++++++++++
<consen01></consen01>	105	GCCTTTGGGCAGCCTGACAACCACGGGTTTGGCAACTGCGTGGAGCTGCA
2989336	201	GG-TTCAGCTGCCTTCAACTGGAACAACCAGCG-TGCAAAACCCGAAACC
W79362		GGCTTCAGCTGCCTTCAACTGGAACGACCAGCGCTGCAAAACCCGAAACC
2554374		GGCTTCAGCTGCCTTCAACTGGAACGACCAGCGCTGCAAAACCCGAAACC
2992967	1	AACC
		+++++++++++++++++++++++++++++++++++++++
<consen01></consen01>	155	GGCTTCAGCTGCCTTCAACTGGAACGACCAGCGCTGCAAAACCCGAAACC
2989336	249	GTTACATCTGCCAGTTTGCCCAGGAGCACATCTCCCGGTGGGGNCAG
W79362		GTTACATCTGCCAGTTTGCCCAGGAGCACATCTCCCGGTGGGGCCCATGG
2554374	65	GTTACATCTGCCAGTTTGGTGAGGGACTTCCTGAGGCTCCCCTTCTC-TG
2992967	5	GTTACATCTGCCAGTCTGCCCAGGNGCACATCTCCCGGTGGGGCCCA-GG
2673172	1	GGCCCA-GG
		+++++++++++++++++++++++++++++++++++++++
<consen01></consen01>	205	GTTACATCTGCCAGTTTGCCCAGGAGCACATCTCCCGGTGGGGCCCA GG
w79362	254	GTCCTGATGGCCTGACCACATGGCTCCCTCGCCTGCCCTGGGAGCACCGG
2554374	114	ATCCCTG-ACCCTGGGGGTGCTGCTGACCCGGTCCAGCCTGCAAGGGTAT
2992967		GTCCTGA-GGCCTGACCACATGGCTCCCTCGCCTGCCCTGGGAGCACCGG
2673172	9	GTCCTGA-GGCCTGACCACATGGCTCCCTCCCCTGCCCTG
	_	.+++++++++++.++.+
<consen01></consen01>	254	GTCCTGA GGCCTGACCACATGGCTCCCTCGCCTGGCAGCACCGG
w79362	304	CTCTGCTTACCTGTCTGCCCACCTNGTCTGNAACAAGGGCCAAGGTTAAG
2554374		CTAGGTGGCAGGTTCAGAGTGGGT-CTGGGCACACGGGGCCA-TAGAGGA
2992967		CTCTGCTTACCTGTCTGCCCACCT-GTCTGGAACAAGGGCCA-GGTTAAG
2673172	58	CTCTGCTTACCTGTCTGCCCACCT-GTCTGGAACAAGGGCCA-GGTTAAG
		+++++.++ .+++.++++++
<consen01></consen01>	303	CTCTGCTTACCTGTCTGCCCACCT GTCTGGAACAAGGGCCA GGTTAAG

FIGURE 5B

W79362	354	4 ATCACATGCCTCATGTCCAAAGAAGGTCTCAGACTTTGCACAATGCCAGA
2554374	21:	1 TGCCCTGTTGATGGCCTTGTACC-TGTGGGCTCCTGAGCCCAGAG
2992967	15:	1 ATCACATGCCTCATGTCCAAAGA-GGTCTCAGACCTTGCACAATGCCAGA
2673172	106	ACCACATGCCTCATGTCCAAAGA-GGTCTCAGACCTTGCACAATGCCAGA
AA527105		
197200	1	GOTCOACCTIGCACAATGCCAGA
	-	ANTINCCAGA
<consen01></consen01>	351	+.+
00115011017	551	ATCACATGCCTCATGTCCAAAGA GGTCTCAGACCTTGCACAATGCCAGA
W79362	407	AGTTGGGT
2992967		
2673172	100	NGTTGGGCAGAGAGAGGCAGGGAGGCCAGTGAGGCC-AGG-AGTGAGTGT
AA527105	122	AGTTGGGCAGAGAGAGGCAGGGAGGCCAGTGAGGGNNAGGGAGTGANTGT
	24	AGTTGGGCAGAGAGAGGCAGGGAGGGAGTGAGTGT
197200	10	NGTTGGGCAGAGAGAGGCAGGGAGGCCAGTNAGGGCCAGGCAGTGAGTNT
		.+++++.++++++++++++++++++++++++++++++++
<consen01></consen01>	400	AGTTGGGCAGAGAGAGGCAGGGAGGGAGGGAGTGAGTGT
222225		
2992967	248	
2673172	205	TAGAAGAAGCTGGGGTCCTTCGCCTGCTTTTGATTG
AA527105	74	TAGAAGAAGCTGGGGCCCTTCGCCTGCTTTTGATTGGGAAGATGGGCTTC
197200	60	TAGACGAAGCTGGGGCCCNNCGCCTNCTTTTNATTNGNNAGATGGGCTNN
		++++.++++++++++++++++
<consen01></consen01>	450	TAGAAGAAGCTGGGGCCCTTCGCCTGCTTTTGATTGGGAAGATGGGCTTC
2992967		A-TTAGATGGC
AA527105	124	AATTAGATGGCGAAGGAGGACACCGCCAGTGGTCCAAAAAGGCTGCTC
197200	110	AATNAGATNGCGAAGGAGAGGACACCNCCANTGGTCCAAAAAGGCT
2127437	1	GAGGACACCGCCAGTGGTCCAAAAAGGCTGCTC
		+++.+++++++++++++++++++++++++++++++++++
<consen01></consen01>	500	AATTAGATGGCGAAGGAGGACACCGCCAGTGGTCCAAAAAGGCTGCTC
AA527105	174	TCTTCCACCTGGCCCAGACCCTGTGGG-CAGCGGACTTCCCTGTGGCATG
2127437	34	TCTTCCACCTGGCCCAGACCCTGTGGGCAGCGGACTTCCCTGTGGCATN
		++++++++++++++++++++++++++++++++++++++
<consen01></consen01>	550	TCTTCCACCTGGCCCAGACCCTGTGGGGCAGCGGACTTCCCTGTGGCATG
AA527105	223	AACCCCACGGGTAATTAAATTATGAATCAGCTGAAAGAAGAAAAAGTCGG
2127437	84	AACCCCACGGGGTATTAAATTATGAATCAGCTGAAAGAAGAAGAAAAGTCGG
		++++++++++++++++++++++++++++++++++++++
<consen01></consen01>	600	AACCCCACGGGTAATTAAATTATGAATCAGCTGAAAGAAGAAAAAGTCGG
AA527105	273	CG
	_ , 5	++
<consen01></consen01>	650	
	0,00	

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- 1 ACAGTGACTT CGAGACCAGG AACTTCTGGA TCGGGCTCAC CTACAAGACC GCCAAGGACT CCTTCCGCTG GGCCACAGGG GAGCACCAGG CCTTCACAG TGTCACTGAA GCTCTGGTCC TTGAAGACCT AGCCCGAGTG GATGTTCTGG CGGTTCCTGA GGAAGGCGAC CCGGTGTCCC CTCGTGGTCC GGAAGTGGTC ^39499.p1
- 101 TITIGCCITI GGGCAGCCIG ACAACCACGG GIITGGCAAC IGCGIGGAGC IGCAGGCTIC AGCIGCCIIC AACIGGAACG ACCAGCGCIG CAAAACCCGA AAAACGGAAA CCCGTCGGAC TGTTGGTGCC CAAACCGTTG ACGCACCTCG ACGTCCGAAG TCGACGGAAG TTGACCTTGC TGGTCGCGAC GTTTTGGGCT
- 201 AACCGTTACA TCTGCCAGTT TGCCCAGGAG CACATCTCCC GGTGGGGCCC AGGGTCCTGA GGCCTGACCA CATGGCTCCC TCGCCTGCCC TGGGAGCACC TTGGCAATGT AGACGGTCAA ACGGGTCCTC GIGTAGAGGG CCACCCCGGG TCCCAGGACT CCGGACTGGT GTACCGAGGG AGCGGACGGG ACCCTCGTGG
- GGCTCTGCTT ACCTGTCTGC CCACCTGTCT GGAACAAGGG CCAGGTTAAG ATCACATGCC TCATGTCCAA AGAGGTCTCA GACCTTGCAC AATGCCAGAA CCGAGACGAA TGGACAGACG GGTGGACAGA CCTTGTTCCC GGTCCAATTC TAGTGTACGG AGTACAGGTT TCTCCAGAGT CTGGAACGTG TTACGGTCTT 301
- GTTGGGCAGA GAGAGGCAGG GAGGCCAGTG AGGGCGAGGG AGTGAGTGTT AGAAGAAGCT GGGGCCCTTC GCCTGCTTTT GATTGGGAAG ATGGGCTTCA CAACCCGTCT CTCTCCGTCC CTCCGGTCAC TCCCGCTCCC TCACTCACAA TCTTCTTCGA CCCCGGGAAG CGGACGAAAA CTAACCCTTC TACCCGAAGT 401
- 501 ATTAGATGGC GAAGGAGAG ACACCGCCAG TGGTCCAAAA AGGCTGCTCT CTTCCACCTG GCCCAGACCC TGTGGGGCAG CGGACTTCCC TGTGGCATGA TAATCTACCG CTTCCTCTC TGTGGGGTC ACCAGGTTTT TCCGACGAGA GAAGGTGGAC CGGGTCTGGG ACACCCCGTC GCCTGAAGGG ACACCGTACT

^39499.rl

601 ACCCCACGGG TAATTAAATT ATGAATCAGC TGAAAGAAGA AAAAGTCGGC G TGGGGTGCCC ATTAATTTAA TACTTAGTCG ACTTTCTTCT TTTTCAGCCG C

- Identities = 51/157 (32%), Positives = 78/157 (49%), at 273,42, Frame = +3 >1 S68683 cysteine-rich secretory protein 3 precursor - human (245 aa) Score = 235 (82.7 bits), Expect = 5.2e-18, P = 5.2e-18
- DNA44176 273 LLSLHNRLRSWVQPPAADMRRLDWSDSLAQLAQARAALCGIPTPSLASGLWRTLQVGWNM * * ** **** * ** **
- 42 IVNKHNELRRAVSPPARNMLKMEWNKEAAANAQKWANQCNY-RHSNPKDRMTSLKCGENL S68683
- DNA44176 453 QLLPAGLASFVEVVSLWFAEGQRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCSA
- S68683 101 YMSSAS-SSWSQAIQSWFDEYNDFDFGVGPKTPNAVVGHYTQVVWYSSYLVGCGNAYCPN *** * ** ***
- DNA44176 633 GQTAIEAFVCAYSPGGNWEVNGKTIIPYKKGAWCSLC .** * *** . *
 - S68683 160 QKVLKYYYVCQYCPAGNWA--NRLYVPYEQGAPCASC

```
DNA44176 159 LLAVLLALLGTTWAEVWPPQLQEQAPMAGALNRKE-SFLLLSLHNRLRSWVQPPAADMRR
                                                                                                                                                                                                                                        3 LLPVLL-FLAAVLLPFFPASGQDPGFAALSITKSEVQKEIVNKHNDLRRTVSPLASNMLK
                                                                                                                                                                                                                                                                                                                       336 LDWSDSLAQLAQARAALCGIPTPSLASGEWRTLQVGWNMQLLPAGLASFVEVVSLWFAEG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  516 QRYSHAAGECARNATCTHYTQLVWATSSQLGCGRHLCSAGQTAIEAFVCAYSPGGNWEVN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             121 HDFKYGVGPKTPNAVVGHYTQVVWYSSYRVGCGIAYCPKQGTLKYYYVCQYCPAGNY-VN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          696 GKTIIPYKKGAWCS-----LCTAS----VSGCFKAWDHAGGLCEVPRNPCRMSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ECCRISP3_1 180 -KINTPYEQGTPCARCPGNCDNGLCTNSCEYEDLVSNCDSLKKIAGCEHELLKENCKTTC
                                                                                                                                                                                                                                                                                                                                                                                                  62 MQWDSKTATNAQNWANKCLLQHSKAEDRAVGTWKCGENL-FMSSIPNSWSDAIQNWHDEV
                                                                        Identities = 71/242 (29%), Positives = 109/242 (45%), at 159,3, Frame = +3
>8 ECCRISP3_1 cysteine-rich secretory protein-3 - Equus caballus (245 aa)
                                 Score = 216 (76.0 bits), Expect = 5.8e-16, P = 5.8e-16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *** * * ** ***
                                                                                                                                                                                                   * *** **
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        831 QNHGRL
                                                                                                                                                                                                                                                                                                                     DNA44176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DNA44176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA44176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DNA44176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ECCRISP3_1
                                                                                                                                                                                                                                        ECCRISP3_1
                                                                                                                                                                                                                                                                                                                                                                                                  ECCRISP3_1
```

ECCRISP3_1 239 QCENKI

Identities = 63/214 (29%), Positives = 96/214 (44%), at 273,44, Frame = +3 cysteine-rich secretory protein 1 precursor - human (249 aa) Score = 207 (72.9 bits), Expect = 5.4e-15, P = 5.4e-15

DNA44176 273 LLSLHNRLRSWVQPPAADMRRLDWSDSLAQLAQARAALCGIPTPS-LASGLWRTLQVGWN

44 IVNIHNALRRRVVPPASNMLKMSWSEEAAQNARIFSKYCDMTESNPLERRLPNTF-CGEN S68684

450 MQLLPAGLASFVEVVSLWFAEGQRYSHAAGECARN-ATCTHYTQLVWATSSQLGCGRHLC ***** **** *: * . * . * . DNA44176

S68684 103 MHMTSYPV-SWSSVIGVWYSESTSFKHGEWTTTDDDITTDHYTQIVWATSYLIGCALASC

627 SAGQTAIEAFVCAYSPGGNWEVNGKTIIPYKKGAWCSLCTASVSGCFKAWDHAGGLCEVP S68684 162 RQQGSPRYLYVCHYCHEGN-DPETKNE-PYKTGVPCEACP---SNC-----EDKLCT--DNA44176

DNA44176

807 RNPCRMSCQNHGRLNISTCHCHCPPGYTGRYCQVRC

S68684 209 -NPC-IYYDEYFDCDIQVHYLGCNHSTTILFCKATC